

Today's Date:

To Be Delivered/Completed

07/08/08

# MO Department of Transportation General Services Facilities Management

**FM06** 

F.O.B. Requirements:

Buyer Name/Telephone Number:

Destination

# REQUEST FOR QUOTATION FOR PURCHASES FROM \$3,000 TO \$24,999.99 THIS IS NOT AN ORDER

Return original copy only. It is the contractor/vendor's responsibility to read and comply with all conditions, specifications, and instructions outlined in this document. This document and any subsequent attachments shall supersede all confirmation forms, receipts or any other paperwork needed to secure services, material, and/or equipment.

Quote Due By (Date)

Printed Name and Title of Responsible Officer/Employee:

Minority Business Enterprise (MBE)? Yes

Is your company registered/certified with the State of Missouri as a (Please circle):

08/04/08 1:00 PM

Quotation #: 10-09-001-BG

No Later Than:	This Quotation # should be referen	nced on all	Facility Operations Supervisor
<u>10/15/08</u>	mailing labels, envelopes, and any		L. David Fleming
	correspondence.		573-472-5231
District Mailing Address:		Delivery Locations:	
Missouri Dept. of Transportation			
P.O. Box 160		Delta Special Crew building, located at 16894 State	
Sikeston, MO. 63801		Hwy. 25, South side of Delta, MO. 63740	
OR FAX TO:			
Fax: 573-472-6618 Attention: David Fleming			
Description of Project			
Furnish all materials and equipment needed to Remove existing window systems including but not necessary			
limited to: all glass, framing, screens, bars and anchors and replacing with new windows and security screens as			
specified in this proposal. It will be the contractor's responsibility to repair any damage to the existing structure			
that may occur during removal of the existing windows system or during placement of new windows. Contractor			
shall include all trim, flashing, paint, weatherproofing, etc. as required to provide a complete and functional			
system. There are 10 existing windows systems at this location. The rough opening for all 10 locations is 82 ½ "			
W. and 32 ½ "T. It will be the responsibility of the successful bidder to get exact measurement of each opening.			
See attached sheets for General Requirements (Broad Scope).			
This is a prevailing wage project. Contractor must comply with Missouri division of labor standards for Cape			
Girardeau Co. wage order # 14			
Attached 4-pages (Terms & Conditions) shall apply and attached 4 -page pictures.			
Any questions please contact David Fleming at 573-380-5836			
Mandatory Required Completion Date: Oct. 15, 2008			
TOTAL PROJECT BID PRICE: \$			
VENDOR NAME:			
Mailing Address:		Vendor Conta	act Information (including area codes):
		Phone #:	-
		Fax #:	
		Fadaral ID To	ny #•

Signature:

Women Business Enterprise (WBE)? Yes

## STANDARD SOLICITATION PROVISIONS

- a. The Missouri Department of Transportation (MoDOT) reserves the right to reject any or all bids/quotes/proposals, and to accept or reject any items thereon, and to waive technicalities. In case of error in the extension of prices in the bid/quote/proposal, unit prices will govern.
- All bids/quotes/proposals must be signed with the firm name and by a responsible officer or employee. Obligations assumed by such signature
  must be fulfilled.
- c. By virtue of statutory authority, a preference will be given to materials, products, supplies, provisions and all other articles produced, manufactured, made or grown, within the State of Missouri.
- d. Time of delivery is a part of the consideration and, if not otherwise stated in the solicitation documents, must be stated in definite terms by the Bidder/Offeror and must be adhered to. If time varies on different items, the Bidder/Offeror shall so state.
- e. If providing bids/quotes/proposals for commodities, the Bidder/Offeror will state brand or make on each item. If bidding or proposing other than the make, model or brand specified, the manufacturer's name, model number or catalog number must be given.
- f. For bids/proposals of \$25,000 or more, no bids/proposals by telephone, telegram or telefax will be accepted. If provided, these bids/proposals should be returned in the MoDOT solicitation return envelope.
- g. If a solicitation return envelope is provided by MoDOT, the bid/quote/proposal should be returned in the envelope provided with the Bid/RFQ/RFP Request Number plainly indicated thereon.
- h. The date specified for the returning of bids/quotes/proposals is a firm deadline and all bids/quotes/proposals must be received at the designated office by that time. The Department does not recognize the U.S. Mail, Railway Express Agency, Air Express, or any other organization, as its agent for purposes of accepting proposals. All proposals arriving at the designated office after the deadline specified will be rejected.

# **GENERAL TERMS AND CONDITIONS**

## **General Performance**

a. This work is to be performed under the general supervision and direction of the Missouri Department of Transportation (MoDOT) and, if awarded any portion of the work, the Contractor agrees to furnish at his own expense all labor and equipment required to complete the work, it being expressly understood that this solicitation is for completed work based upon the price(s) specified and is not a solicitation for rental of equipment or employment of labor by MoDOT, and MoDOT is to have no direction or control over the employees used by the Contractor in performance of the work.

#### **Deliveries**

- a. If the prices bid herein include the delivery cost of the material, the Contractor agrees to pay all transportation charges on the material as FOB Destination. Freight costs must be included in the unit price bid and not listed as a separate line item.
- b. Any demurrage is to be paid by the Contractor direct to the railroad or carrier.

# <u>Nondiscrimination</u>

- a. The Contractor shall comply with the Regulations relative to nondiscrimination in federally-assisted programs of the Department of Transportation, Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.
- b. All solicitations either by competitive bidding or negotiation made by the Contractor for work to be performed under a subcontract, including procurements of materials or leases of the Contractor's obligations under this contract and the Regulations, will be relative to nondiscrimination on the grounds of race, color, or national origin.
  - 1) <u>Sanctions for Noncompliance:</u> In the event of the Contractor's noncompliance with the nondiscrimination provisions of this contract, MoDOT shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:
    - i. withholding of payments to the Contractor under the contract until the Contractor complies, and/or,
    - ii. cancellation, termination or suspension of the contract, in whole or in part.

# Contract/Purchase Order

- a. By submitting a bid/quote/proposal, the Bidder/Offeror agrees to furnish any and all equipment, supplies and/or services specified in the solicitation documents, at the prices quoted, pursuant to all requirements and specifications contained therein.
- b. A binding contract shall consist of: (1) the solicitation documents, amendments thereto, and/or Best and Final Offer (BAFO) request(s) with any changes/additions, (2) the Contractor's proposal and/or submitted pricing, and (3) the MHTC's acceptance of the proposal and/or bid by purchase order or post-award contract.
- c. A notice of award does not constitute an authorization for shipment of equipment or supplies or a directive to proceed with services. Before providing equipment, supplies and/or services, the Contractor must receive a properly authorized purchase order and/or notice to proceed.
- d. The contract expresses the complete agreement of the parties and performance shall be governed solely by the specifications and requirements contained therein. Any change, whether by modification and/or supplementation, must be accomplished by a formal contract amendment signed and approved by and between the duly authorized representative of the Contractor and the duly authorized representative of the MHTC, by a modified purchase order prior to the effective date of such modification. The Contractor expressly and explicitly understands and agrees that no other method and/or no other document, including correspondence, acts, and oral communications by or from any person, shall be used or construed as an amendment or modification.

# Subcontracting

a. Consent to subcontract any portion of the work shall not be construed to relieve the Contractor of any responsibility for the production and delivery of the contracted work and the completion of the work within the specified time.

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- b. The bidder shall complete and submit a listing of proposed Subcontractors for work equaling or exceeding 1% of the total proposed Contract Sum. MHTC reserves the sole right to accept or reject proposed subcontractors.
- c. All payments for work performed by a subcontractor shall be made to the Contractor to whom the contract was awarded and the purchase order issued.

# **Invoicing and Payment**

- a. MoDOT is exempt from paying Missouri Sales Tax, Missouri Use Tax and Federal Excise Tax. However, the Contractor may themselves be responsible for the payment of taxes on materials they purchase to fulfill the contract. A Federal Excise Tax Exemption Certificate will be furnished to the successful Bidder/Offeror upon request.
- b. Each invoice should be itemized in accordance with items listed on the purchase order and/or contract. The statewide financial management system has been designed to capture certain receipt and payment information. Therefore, each invoice submitted must reference the purchase order number and must be itemized in accordance with items listed on the purchase order. Failure to comply with this requirement may delay processing of invoices for payment.
- c. Unless otherwise provided for in the solicitation documents, payment for all equipment, supplies, and/or services required herein shall be made in arrears. The Missouri Highways and Transportation Commission (MHTC) shall not make any advance deposits.
- d. The MHTC assumes no obligation for equipment, supplies, and/or services shipped or provided in excess of the quantity ordered. Any authorized quantity is subject to the MHTC's rejection and shall be returned at the Contractor's expense.
- e. The MHTC reserves the right to purchase goods and services using the state-purchasing card.

# Applicable Laws and Regulations

- a. The contract shall be construed according to the laws of the State of Missouri. The Contractor shall comply with all local, state, and federal laws and regulations related to the performance of the contract.
- b. The Contractor must be registered and maintain good standing with the Secretary of State of the State of Missouri and other regulatory agencies, as may be required by law or regulations. Prior to the issuance of a purchase order and/or notice to proceed, the Contractor may be required to submit to MoDOT a copy of their current Authority Certificate from the Secretary of State of the State of Missouri.
  - 1) Prior to the issuance of a purchase order and/or notice to proceed, all **out-of-state** Contractors <u>providing services</u> within the state of Missouri must submit to MoDOT a copy of their current Transient Employer Certificate from the Department of Revenue, in addition to a copy of their current Authority Certificate from the Secretary of State of the State of Missouri.
- c. The exclusive venue for any legal proceeding relating to or arising, out of the contract shall be in the Circuit Court of Cole County, Missouri.

#### **Preferences**

- In the evaluation of bids/quotes/proposals, preferences shall be applied in accordance with Chapter 34 RSMo. Contractors should apply the same preferences in selecting subcontractors.
- b. By virtue of statutory authority, RSMo. 34.076 and 34.350 to 34.359, a preference will be given to materials, products, supplies, provisions and all other articles produced, manufactured, made or grown within the State of Missouri. Such preference shall be given when quality is equal or better and delivered price is the same or less.
  - 1) If attached, the document entitled <u>"PREFERENCE IN PURCHASING PRODUCTS"</u> should be completed and returned with the solicitation documents.
  - 2) If attached, the document entitled "MISSOURI DOMESTIC PRODUCTS PROCUREMENT ACT" should be completed and returned with the solicitation documents. Applies if bid is Twenty-Five Thousand Dollars (\$25,000.00) or more.
- c. In the event of a tie of low bids, the MHTC reserves the right to establish the method to be used in determining the award

# Remedies and Rights

- a. No provision in the contract shall be construed, expressly or implied, as a waiver by the MHTC of any existing or future right and/or remedy available by law in the event of any claim by the MHTC of the Contractor's default or breach of contract.
- b. The Contractor agrees and understands that the contract shall constitute an assignment by the Contractor to the MHTC of all rights, title and interest in and to all causes of action that the Contractor may have under the antitrust laws of the United States or State of Missouri for which causes of action have accrued or will accrue as the result of or in relation to the particular equipment, supplies, and/or services purchased or produced by the Contractor in the fulfillment of the contract with the MHTC.
- c. In the event a Contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the Contractor may request MoDOT to enter into such litigation to protect the interests of the MHTC, and, in addition, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

### **Cancellation of Contract**

- a. The MHTC may cancel the contract at any time for a material breach of contractual obligations or for convenience by providing the Contractor with written notice of cancellation. Should the MHTC exercise its right to cancel the contract for such reasons, cancellation will become effective upon the date specified in the notice of cancellation sent to the Contractor.
- b. If the MHTC cancels the contract for breach, the MHTC reserves the right to obtain the equipment, supplies, and/or services to be provided pursuant to the contract from other sources and upon such terms and in such manner as the MHTC deems appropriate and charge the Contractor for any additional costs incurred thereby.

#### Bankruptcy or Insolvency

a. Upon filing for any bankruptcy or insolvency proceeding by or against the Contractor, whether voluntary or involuntary, or upon the appointment of a

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receiver, trustee, or assigned the benefit or creditors, the Contractor must notify MoDOT immediately. Upon learning of any such actions, the MHTC reserves the right, at its sole discretion, to either cancel the contract or affirm the contract and hold the Contractor responsible for damages.

## Inventions, Patents, and Copyrights

a. The Contractor shall defend, protect, and hold harmless the MHTC, its officers, agents, and employees against all suits of law or in equity resulting from patent and copyright infringement concerning the Contractor's performance or products produced under the terms of the contract.

## Inspection and Acceptance

- a. No equipment, supplies, and/or services received by MoDOT pursuant to a contract shall be deemed accepted until MoDOT has had reasonable opportunity to inspect said equipment, supplies, and/or services.
- b. All equipment, supplies, and/or services which do not comply with the specifications and/or requirements or which are otherwise unacceptable or defective may be rejected. In addition, all equipment, supplies, and/or services which are discovered to be defective or which do not conform to any warranty of the Contractor upon inspection (or at any later time if the defects contained were not reasonably ascertainable upon the initial inspection) may be rejected.
- c. The MHTC reserves the right to return any such rejected shipment at the Contractor's expense for full credit or replacement and to specify a reasonable date by which replacements must be received.
- d. The MHTC's right to reject any unacceptable equipment, supplies, and/or services shall not exclude any other legal, equitable or contractual remedies the MHTC may have.

#### Warranty

- a. The Contractor expressly warrants that all equipment, supplies, and/or services provided shall: (1) conform to each and every specification, drawing, sample or other description which was furnished to or adopted by MoDOT, (2) be fit and sufficient for the purpose expressed in the solicitation documents, (3) be merchantable, (4) be of good materials and workmanship, and (5) be free from defect.
- b. Such warranty shall survive delivery and shall not be deemed waived either by reason of the MHTC's acceptance of or payment for said equipment, supplies, and/or services.

### Status of Independent Contractor

a. The Contractor represents itself to be an independent Contractor offering such services to the general public and shall not represent itself or its employees to be an employee of the MHTC. Therefore, the Contractor shall assume all legal and financial responsibility for taxes, FICA, employee fringe benefits, workers' compensation, employee insurance, minimum wage requirements, overtime, etc., and agrees to indemnify, save and hold the MHTC, its officers, agents and employees harmless from and against any and all losses (including attorney fees) and damage of any kind related to such matters.

### Indemnification

- a. The Contractor shall be responsible for injury or damages as a result of any services and/or goods rendered under the terms and conditions of this Agreement.
- b. In addition to the liability imposed upon the Contractor on the account of personal injury, bodily injury, including death, or property damage, suffered as a result of the Contractor's performance under this Agreement, the Contractor assumes the obligation to save harmless the Commission, including its agents, employees and assigns, and to indemnify the Commission, including its agents, employees and assigns, from every expense, liability or payment arising out of such wrongful or negligent act or omission, including legal fees.
- c. The Contractor also agrees to hold harmless the Commission, including its agents, employees and assigns, from any wrongful or negligent act or omission committed by any subcontractor or other person employed by or under the supervision of the Contractor for any purpose under this Agreement, and to indemnify the Commission, including its agents, employees and assigns, from every expense, liability or payment arising out of such wrongful or negligent act or omission.

# SPECIAL TERMS AND CONDITIONS

### <u>Insurance</u>

- a. The Contractor shall purchase and maintain such insurance as will protect him from claims under workmen's compensation acts and other employee benefit acts, from claims for damages because of bodily injury, including death, and from claims for damages to property which may arise out of or result from the Contractor's operations under this Contract, whether such operations be by himself or by any Subcontractor or anyone directly or indirectly employed by any of them.
- b. This insurance shall be written for not less than any limits of liability specified as part of this contract, or required by law, whichever is the greater, and shall include contractual liability insurance as applicable to the Contractor's obligations under this contract. Unless otherwise specified, insurance limits shall be as follows:
  - 1) Workmen's Compensation: Workers Compensation Insurance, including "Occupational Disease Act" requirements, must be maintained if required by law.
  - 2) Public Liability (includes property damage and personal injury):
    - Not less than \$400,000 for any one person in a single accident or occurrence.
    - i. Not less than \$1,000,000 for all claims arising out of a single occurrence.
  - 3) Special Hazard Insurance: As required.
  - 4) Builder's Risk: Not less than the full Contract amount.

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#### Prevailing Wage

- a. If the bid/quote/proposal is accepted, the vendor will be required to comply with the prevailing wages as fixed by the Missouri Department of Labor and Industrial Relations, in effect as of the date of the issuance of the solicitation, for each affected craft and type of workmen in Cape Girardeau County. The Annual Wage Order #14 may be inspected at any District Office or at the Central Office in Jefferson City, MO.
- b. The Contractor shall submit notarized weekly payroll affidavit documentation included with the project request for payment. The successful vendor must provide a lien waiver from all material suppliers.

#### Permits, Licenses and Safety Issues

- a. The contract price shall include any necessary permits and licenses required by law incidental to the work. Local ordinances requiring building permits are not applicable to state agencies.
- The Contractor will comply with local laws involving safety in the prosecution of the work.

#### <u>Award</u>

a. Award of this bid/quote/proposal will be made using the "lowest and best" principle of award.

### **Delivery - Additional Requirements**

- a. The Contractor shall furnish the Missouri Department of Transportation with a planned delivery schedule at least 16 hours before starting delivery.
  - 1) Notification should be during the normal workday preceding the day on which the Contractor desires to initiate delivery.
  - 2) It will be necessary for a representative of the Missouri Department of Transportation to be present when the material is delivered.

### **Cancellation of Contract**

- a. If the Contractor/supplier fails to carry out the performance of the work with sufficient workmen and equipment to insure the completion of the delivery within the time specified or becomes insolvent or is adjudicated a bankrupt or commits any act of bankruptcy or insolvency or allows any final judgment to stand against him for a period of ten (10) days, the Missouri Department of Transportation may give notice in writing by registered mail to the Contractor/supplier and the surety of such delay, neglect or default.
- b. If, within ten (10) days after such notice the Contractor/supplier does not proceed to remedy to the satisfaction of the Department's representatives the faults specified in said notice, or the surety does not proceed to take over the deliveries, the Department shall have full power and authority, without impairing the obligation of the Contractor/supplier under the contract or the surety under the bond, to take over the completion of the work and arrange for the shipment of any materials necessary to complete the work and the Contractor/supplier and the surety will be responsible for any additional costs incurred by the Department in obtaining the completion of the deliveries.

#### Liquidated Damages

a. In the event the successful Contractor fails to deliver the material within the time specified, the Department and the public will sustain damages because of such delay in delivery, the exact extent of which would be difficult to ascertain, and in order to liquidate such damage in advance it is agreed that the sum of one-hundred dollars (\$100.00) per day, per item, for each assessable calendar day on which the delivery has not been completed, is reasonable and the best estimate which the parties can arrive at as liquidated damages, and it is therefore agreed that said amount will be withheld from payments due the Contractor or otherwise collected from the Contractor as liquidated damages.

#### **Environmental Issues**

- a. Attention of the bidder is invited to the Land Reclamation Act, Chapter 444, Laws of 1971, (House Bill 519) and the necessity for compliance if applicable.
- b. The material to be supplied under the contract will comply with the quality and gradation requirements of the Missouri Standard Specifications for Highway Construction, Edition of 2004, and any revisions thereto, unless modified by these specifications.

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# General Notes:

All aluminum windows shall be by Sealcraft Corp. Shreveport, LA. /equal or better.

# Series 8150 HS-C50 Horizontal Slide

Finish at all windows, screens and trims shall be Sealcraft Standard baked enamel AAMA 2603, Standard Dark Bronze.

Hardware at all sash shall be Sealcraft standard sweep type.

Insect screens shall be Sealcraft standard half type with .009 dia. Stainless Steel mesh. Security screens shall be Sealcraft standard center hinge with .028 dia. Stainless Steel mash.

All windows shall be factory glazed utilizing sealcraft standard materials and methods with 7/8" insulated glass consisting of 1/8" clear annealed both sides.

Pattern #62 obscure glass shall be furnished for one entire window, and ½ of another window on the left side, if you were facing the outside of window. These will be indicated on the pictures sent.

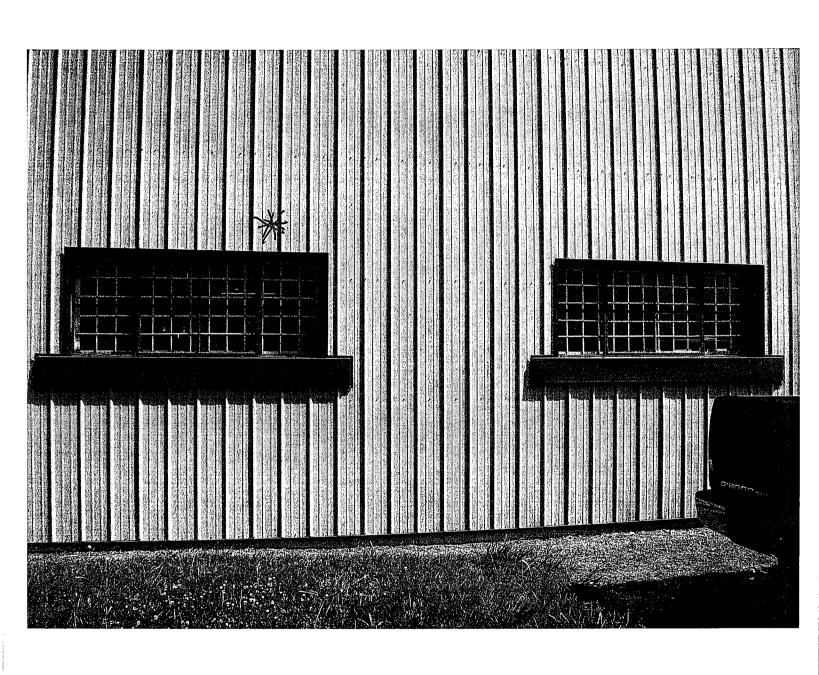
Caulking shall be vulkem standard dark bronze.



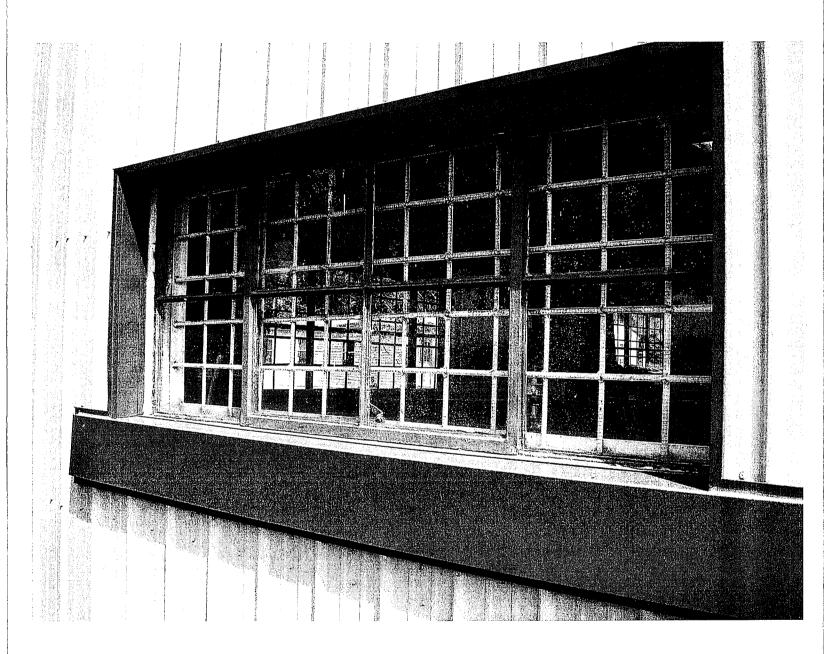
West View



South Side



East Side



\* Close up of Window EAst Side

# DEMOLITION

# PART 1 GENERAL

# 1.1 SECTION INCLUDES

A. Demolition of designated structures.

# 1.2 PREPARATION and EXECUTION

- A. Provide, erect, and maintain temporary barriers and security devices.
- B. Notify adjacent building occupants of work that may affect their activities, potential noise, utility outage or disruption. Coordinate with on-site representative.
- C. Prevent movement or settlement of adjacent structures. Provide bracing and shoring as required.
- D. Protect existing landscaping and/or paving that is not to be demolished.
- E. Demolish structure indicated in an orderly and careful manner.
- F. Demolish and remove components in an orderly and careful manner.

# 1.3 CLEAN UP

- A. Remove demolished materials from site as work progresses.
- B. Leave areas of work in clean condition.

### MORTAR AND MASONRY GROUT

#### PART 1 **GENERAL**

#### 1.1 SECTION INCLUDES

A. Mortar and grout for masonry.

#### 1.2 RELATED SECTIONS

A. Section 04305 - Brick Masonry System.

#### 1.3 **OUALITY ASSURANCE**

Perform work in accordance with ACI 530 and ACI 530.1. A.

#### 1.4 ENVIRONMENTAL REQUIREMENTS

- Maintain materials and surrounding air temperature to minimum 40 degrees F prior to, during, and A. 48 hours after completion of masonry work.
- В. Maintain materials and surrounding air temperature to maximum 90 degrees F prior to, during, and 48 hours after completion of masonry work.

#### PART 2 **PRODUCTS**

#### 2.1 **MATERIALS**

A Premix Mortar: ASTM C387, using gray cement, normal strength.

В. Mortar Aggregate: ASTM C144, standard masonry type. ASTM C207, Type S.

C. Hydrated Lime:

D. Grout Aggregate: ASTM C404.

E. Water: Clean and potable.

F. Bonding Agent: Epoxy type.

#### 2.2 MORTAR MIXES

- A. Mortar for Masonry Below Grade and in Contact with Earth: ASTM C270, Type M.
- B. Mortar for Reinforced Masonry: ASTM C270, Type S.
- C. Mortar for Reinforced Masonry: ASTM C270, Type S.
- Mortar for Non-load Bearing Walls and Partitions: ASTM C270, Type S or Type N. D.

#### 2.3 MORTAR MIXING

- A. Thoroughly mix mortar ingredients in quantities needed for immediate use in accordance with ASTM C270.
- В. Add admixtures in accordance with manufacturer's instructions.
- C. Do not use antifreeze compounds to lower the freezing point of mortar.

#### 2.4 MORTAR COLOR

A. Mortar Color: Mineral oxide pigment, color as selected by Architect.

# 2.5 GROUT MIXES

- A. Grout: Mixed in accordance with ASTM C476; provide consistency required at time of placement to fill completely all spaces indicated to be grouted.
  - 1. Use fine grout in spaces less than 2 inches in least horizontal dimension.
  - 2. Use coarse grout in spaces 2 inches or more in least horizontal dimension.

# 2.6 GROUT MIXING

- A. Thoroughly mix mortar ingredients in quantities needed for immediate use in accordance with ASTM C476.
- B. Do not use anti-freeze compounds to lower the freezing point of grout.

# 2.7 MIX TESTS

- A. Testing of Mortar Mix: In accordance with ASTM C780
- B. Testing of Grout Mix: In accordance with ASTM C1019.

# PART 3 EXECUTION

# 3.1 INSTALLATION

- A. Install mortar in accordance with ASTM C780.
- B. Perform all grouting by means of low-lift technique.
  - 1. Maintain minimum dimension of 2 inches and minimum area of 6 square inches in cells to be grouted. Extend vertical reinforcement above pour height as required for splicing.
  - 2. Lay masonry units to maximum pour height, not to exceed 32 inches.
  - 3. Place grout continuously and consolidate immediately; do not interrupt pour for more that one hour.
  - 4. Stop vertical pours 1-1/2 inches below bond beams to interlock with vertical cores.
- C. Work grout into masonry cores and cavities to eliminate voids. Do not displace reinforcement.

#### UNIT MASONRY SYSTEM

# PART 1 GENERAL

# 1.1 SECTION INCLUDES

- A. Concrete masonry units.
- B. Reinforcement, anchorage and accessories.
- C. Pargeted masonry surfaces.

# 1.2 RELATED SECTIONS

- A. Section 01400 Quality Control.
- B. Section 05500 Metal Fabrications: Loose steel lintels and fabricated steel items.
- C. Section 07160 Bituminous: Dampproofing masonry surfaces.
- D. Section 07212 Rigid Insulation: Insulation for cavity spaces.
- E. Section 07900 Joint Sealers: Rod and sealant at control and expansion joints.

# 1.3 REFERENCES

- A. ACI 530 Building Code Requirements for Masonry Structures.
- B. ACI 530.1 Specifications For Masonry Structures.
- C. ASTM A82 Cold-Drawn Steel Wire for Concrete Reinforcement.
- D. ASTM C129 Non-Load Bearing Concrete Masonry Units.
- E. ASTM C744 Pre-faced Concrete and Calcium Silicate Masonry Units.
- F. UL Fire Resistance Directory.

# 1.4 ENVIRONMENTAL REQUIREMENTS

A. Maintain materials and surrounding air temperature to minimum 40 degrees F prior to, during and 48 hours after completion of masonry work.

# 1.5 COORDINATION

A. Coordinate work under provisions of Section 01039.

# PART 2 PRODUCTS

# 2.1 CONCRETE MASONRY UNITS

- A. Hollow Non-Load Bearing Block Units (CMU): ASTM C129, Type I Moisture Controlled; normal weight.
- B. Decorative Block Units: ASTM C90, Type I Moisture Controlled; color as selected.
  - 1. Ribbed and split face with three vertical ribs.
- C. Concrete Brick Units: ASTM C55, Grade N, Type I Moisture Controlled; of same Grade, Type, and Weight as block units.
- D. Size and Shape: Nominal modular size of 8 x 8 x 16 and 4 x 8 x 16 inches. Provide special units for 90-degree corners, bond beams, lintels and bullnosed corners.

### 2.2 REINFORCEMENT AND ANCHORAGE

- A. Single Wythe Joint Reinforcement: Truss type; steel wire, hot dip galvanized to ASTM A641 Class 3 after fabrication, cold drawn steel wire conforming to ASTM A82, 3/16 inch side rods with 1/16 inch cross ties.
- B. Wall Ties: bent steel shape, 1 x 6 inch size x 18 gauge thick, hot dip galvanized to ASTM A123 finish.

# 2.3 FLASHINGS

A. Galvanized Steel: ASTM A525, 24-gauge core steel.

# 2.4 ACCESSORIES

- A. Preformed Control Joints: Rubber material. Provide with corner and tee accessories, heat fused joints.
- B. Building Paper: No. 15 asphalt saturated felt.
- C. Nailing Strips: Softwood, preservative treated for moisture resistance, dovetail shape, sized to masonry joints.
- D. Weeps: Preformed plastic tubes, hollow.
- E. Cleaning Solution: Non-acidic, not harmful to masonry work or adjacent materials.

# 2.5 SEALERS

A. Provide sealer to exterior concrete masonry units equal to Sure Klean; Blok-Guard S or Weather Seal Siloxane WB Concentrate as manufactured by: ProSoCo, Inc.

### PART 3 EXECUTION

# 3.1 EXAMINATION

- A. Verify that field conditions are acceptable and are ready to receive work.
- B. Verify items provided by other sections of work are properly sized and located.
- C. Verify that built-in items are in proper location and ready for roughing into masonry work.

### 3.2 PREPARATION

- A. Direct and coordinate placement of metal anchors supplied to other sections.
- B. Provide temporary bracing during installation of masonry work. Maintain in place until building structure provides permanent bracing.

# 3.3 COURSING

- A. Establish lines, levels, and coursing indicated. Protect from displacement.
- B. Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.
- C. Concrete Masonry Units:
  - 1. Bond: Running.
  - 2. Coursing: One unit and one mortar joint to equal 8 inches.
  - 3. Mortar Joints: Beveled.

# 3.4 PLACING AND BONDING

- A. Lay solid masonry units in full bed of mortar, with full head joints, uniformly jointed with other work.
- B. Lay hollow masonry units with face shell bedding on head and bed joints.
- C. Buttering corners of joints or excessive furrowing of mortar joints are not permitted.
- D. Remove excess mortar as work progresses.
- E. Do not shift or tap masonry units after mortar has achieved initial set. Where adjustment must be made, remove mortar and replace.
- F. Perform job site cutting of masonry units with proper tools to provide straight, clean, unchipped edges. Prevent broken masonry unit corners or edges.

### 3.5 WEEPS

A. Install weeps in veneer at 24 inches o.c. horizontally above through-wall flashing, above shelf angles and lintels, and at bottom of walls.

### 3.6 REINFORCEMENT AND ANCHORAGE - MASONRY VENEER

- A. Install horizontal joint reinforcement 16 inches O.C.
- B. Place masonry joint reinforcement in first horizontal joints above and below openings. Extend minimum 16 inches each side of opening.
- C. Place joint reinforcement continuous in first joint below top of walls.
- D. Lap joint reinforcement ends minimum 6 inches.
- E. Secure wall ties to stud framed back-up and embed into masonry veneer at maximum 16 inches O.C. vertically and 36 inches o.c. horizontally. Place at maximum 3 inches o.c. each way around perimeter of openings, within 12 inches of openings.
- F. Reinforce unit joint corners and intersections with strap anchors 16 inches O.C.

### 3.7 MASONRY FLASHINGS

- A. Extend flashings horizontally at foundation walls, above ledge or shelf angles and lintels and at bottom of walls.
- B. Turn flashing up minimum 8 inches and seal to sheathing over wood or steel stud back-up.
- C. Lap end joints minimum 6 inches and seal watertight.
- D. Urn flashing; fold and seal at corners, bends and interruptions.

# 3.8 LINTELS

- A. Install loose steel or precast concrete lintels over openings.
- B. Install reinforced unit masonry lintels over openings where steel or precast concrete lintels are not scheduled.
- C. Openings Up To 42 inches Wide: Place two No. 4 M9 reinforcing bars 1 inch from bottom web.

- D. Openings From 42 inches Up To 78 inches Wide: Place two No. 5 M16 reinforcing bars 1 inch from bottom web.
- E. Openings Over 78 inches: Reinforce openings as detailed.
- F. Do not splice reinforcing bars.
- G. Support and secure reinforcing bars from displacement. Maintain position within 1/2 inch of dimensioned position.
- H. Place and consolidate grout fill without displacing reinforcing.
- I. llow masonry lintels to attain specified strength before removing temporary supports.
- J. Maintain minimum 6 inch bearing on each side of opening.

# 3.9 CONTROL AND EXPANSION JOINTS

- A Do not continue horizontal joint reinforcement through control and expansion joints.
- B. Install preformed control joint device in continuous lengths. Seal butt and corner joints in accordance with manufacturer's instructions.
- C. Size control joint in accordance with Section 07900 for sealant performance.
- D. Form expansion joint as detailed.

### 3.10 TOLERANCES

- A. Maximum Variation From Unit to Adjacent Unit: 1/16 inch.
- B. Maximum Variation from Plane of Wall: 1/4 inch in 10 ft and 1/2 inch in 20 ft or more.
- C. Maximum Variation from Plumb: 1/4 inch per story non-cumulative; 1/2 inch in two stories or more.
- D. Maximum Variation from Level Coursing: 1/8 inch in 3 ft and 1/4 inch in 10 ft; 1/2 inch in 30 ft.
- E. Maximum Variation of Joint Thickness: 1/8 inch in 3 ft.
- F. Maximum Variation from Cross Sectional Thickness of Walls: 1/4 inch.

# 3.11 CUTTING AND FITTING

- A. Cut and fit for chases, pipes, conduit, sleeves and grounds. Coordinate with other sections of work to provide correct size, shape and location.
- B. Obtain approval prior to cutting or fitting masonry work not indicated or where appearance or strength of masonry work may be impaired.

# 3.12 FIELD QUALITY CONTROL

- A. Field inspection will be performed under provisions of Section 01400.
- B. Inspect all masonry work.

# 3.13 CLEANING

- A. Clean work under provisions of 01700.
- B. Remove excess mortar and mortar smears as work progresses.
- C. Replace defective mortar. Match adjacent work.
- D. Clean soiled surfaces with cleaning solution.
- E. Use non-metallic tools in cleaning operations.

#### 3.14 PROTECTION OF FINISHED WORK

- Α.
- Protect finished Work under provisions of Section 01500. Without damaging completed work, provide protective boards at exposed external corners, which may be damaged by construction activities. В.

# JOINT SEALERS

# PART 1 GENERAL

# 1.1 SECTION INCLUDES

- A. Sealants and joint backing.
- B. Precompressed foam sealers.
- C. Hollow gaskets.

#### 1.2 RELATED SECTIONS

- A. Section 07311: Sealants required in conjunction with waterproofing.
- B. Section 08800 Glazing: Glazing sealants and accessories.
- C. Section 09260 Gypsum Board Systems: Acoustic sealant.

# 1.3 REFERENCES

- A. ASTM C834 Standard Specification for Latex Sealing Compounds.
- B. ASTM C920 Standard Specification for Elastomeric Joint Sealants.
- C. ASTM C1193 Standard Guide for Use of Joint Sealants.
- D. ASTM D1056 Standard Specification for Flexible Cellular Materials Sponge or Expanded Rubber.
- E. ASTM D1565 Standard Specification for Flexible Cellular Materials -Vinyl Chloride Polymers and Copolymers (Open-Cell Foam).
- F. ASTM D1667 Standard Specification for Flexible Cellular Materials -Vinyl Chloride Polymers and Copolymers (Closed-Cell Foam).

# 1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum three years experience.
- B. Applicator Qualifications: Company specializing in performing the work of this and approved by manufacturer.

# 1.5 ENVIRONMENTAL REQUIREMENTS

A. Maintain temperature and humidity recommended by the sealant manufacturer during and after installation.

# 1.6 COORDINATION

- A. Section 01039 Coordination and Meetings: Coordination requirements.
- B. Coordinate the work with all sections referencing this section.

# 1.7 WARRANTY

- A. Section 01700 Warranties.
- B. Correct defective work within a five-year period after Date of Substantial Completion.
- C. Warranty: Include coverage for installed sealants and accessories which fail to achieve airtight seal and exhibit loss of adhesion or cohesion or do not cure.

# 1.8 SEALANTS

- A. Type I General Purpose Exterior Sealant: Polyurethane or Polysulfide; ASTM C920, Grade NS, Class 25, Uses M, G and A; single or multi- component.
  - 1. Standard colors matching finished surfaces.
- B. Type II Exterior Expansion Joint Sealer: Precompressed foam sealer; urethane with water-repellent:
  - 1. Face color: Gray.
  - 2. Size as required providing watertight seal when installed.
  - 3. Provide product recommended by manufacturer for traffic-bearing use.
  - 4. Applications: Use for:
    - a. Exterior wall expansion joints
    - b. Paving surface joints
    - c. Set in floor components
- C. Type III Exterior Metal Lap Joint Sealant: Butyl or polyisobutylene, non-drying, non-skinning, non-curing.
  - 1. Applications: Use for:
  - a. Concealed sealant bead in sheet metal work.
  - b. Concealed sealant bead in siding overlaps.
- D. Type IV General Purpose Interior Sealant: Acrylic emulsion latex; ASTM C834, single component, paintable.
  - 1. Standard colors matching finished surfaces. Applications: Use for:
    - a. Interior wall and ceiling control joints.
    - b. Joints between door and window frames and wall surfaces.
    - c. Other interior joints for which no other type of sealant is indicated.

# PART 2 PRODUCTS

### 2.2 ACCESSORIES

- A. Primer: Non-staining type, recommended by sealant manufacturer to suit application.
- B. Joint Cleaner: Non-corrosive and non-staining type, recommended by sealant manufacturer; compatible with joint forming materials.
- C. Joint Backing: Round foam rod compatible with sealant; ASTM D1056, sponge or expanded rubber; oversized 30 to 50 percent larger than joint width.
- D. Bond Breaker: Pressure sensitive tape recommended by sealant manufacturer to suit application.

# PART 3 EXECUTION

# 3.1 EXAMINATION

A. Verify that substrate surfaces and joint openings are ready to receive work.

B. Verify that joint backing and release tapes are compatible with sealant.

# 3.2 PREPARATION

- A. Remove loose materials and foreign matter that might impair adhesion of sealant.
- B. Clean and prime joints in accordance with manufacturer's instructions.
- C. Perform preparation in accordance with manufacturer's instructions and ASTM C1193.
- D. Protect elements surrounding the work of this section from damage or disfiguration.

# 3.3 INSTALLATION

- A. Perform installation in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.
- B. Perform installation in accordance with ASTM C1193.
- C .Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated.
- D. Install bond breaker where joint backing is not used.
- E. Install sealant free of air pockets, foreign embedded matter, ridges and sags.
- F. Apply sealant within recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.
- G. Tool joints concave.
- H. Precompressed Foam Sealant: Do not stretch; avoid joints except at corners, ends, and intersections; install with face 1/8 to 1/4 inch below adjoining surface.
- I. Compression Gaskets: Avoid joints except at ends, corners, and intersections; seal all joints with adhesive; install with face 1/8 to 1/4 inch below adjoining surface.

# 3.4 CLEANING

A. Clean adjacent soiled surfaces.

# 3.5 PROTECTION OF FINISHED WORK

Protect sealants until cured.

#### ALUMINUM WINDOWS

# PART 1 GENERAL

# 1.1 SUMMARY

- A. Provide aluminum windows where shown on the Drawings, as specified herein and as needed for a complete and proper installation.
- B. Related work:
  - 1. Documents affecting work of this Section include but are not necessarily limited to, General Conditions, Supplementary Conditions and Sections in Division 1 of these Specifications.

### 1.2 SUBMITTALS

- A. Comply with pertinent provisions of Section 01340.
- B. Product data: Within 5 calendar days after the Contractor has received the Owner's Notice to Proceed, submit:
  - 1. Materials list of items proposed to be provided under this Section;
  - 2. Manufacturer's specifications and other data needed to prove compliance with the specified requirements;
  - 3. Shop Drawings in sufficient detail to shown fabrication, installation, anchorage, and interface of the work of this Section with the work of adjacent trades;
  - 4. Manufacturer's recommended installation procedures which, when approved by the Architect, will become the basis for accepting or rejecting actual installation procedures used on the Work.

# 1.3 OUALITY ASSURANCE

- A. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.
- B. In addition to complying with pertinent regulations of governmental agencies having jurisdiction:
  - 1. Comply with ANSI-AAMA 101-88 for the designations specified.
  - 2. All windows shall bear the "AAMA Certification Program" gold label indicating conformance to ANSI/AAMA 101-88, "Heavy Commercial" grade.
  - 3. All windows shall be warranted for one year against defects in material or workmanship under normal use.
    - a. Finish shall be warranted for ten years against chipping, peeling, cracking or blistering.
    - b. Insulated glass shall be warranted for five years against visual obstruction resulting from film formation or moisture collection between the internal glass surfaces.
    - c. Installer shall provide warranty for one year performance on operation and air/water specified levels including labor to repair component parts.

# 1.4 DELIVERY, STORAGE, AND HANDLING

A. Comply with pertinent provisions of Section 01640.

# PART 2 PRODUCTS

# 2.1 ALUMINUM WINDOWS

A. Provide aluminum windows of the types and dimensions shown on the Drawings, complete with anchors of the types needed for the installation and complying with the following standards as defined in NSI-AAMA 101-88:

1.

## B. Finish:

- 1. Provide electrostatically applied acrylic or baked on polyester enamel on all window members.
- 2. The finish color shall be selected by the Owner from the manufacturer's standard color options.

# C. Glass and Glazing

- 1. Each window shall be factory single glazed to 3/4" insulated glass with two lites of 1/8" (DSB). Glass units shall be tested, certified and carry the respective CBA level certification on glass spacer on each window.
- 2. Provide standard 1/8" (DSB), dual marine glazing on each horizontal sliding window.

# D. Acceptable Products: Sliding

- 1. Quaker Lisa Series Single Horizontal Slider with full width .028 dia. security screen with center mount hinge with integral stainless steel insect screen, Quaker Window Company, Highway 63 South, P.O. Box 128, Freeburg, MO. 65035 Ph: 800-347-0438
- Pamela Series Single Hung with full width .028 dia. Security screen with integral stainless steel insect screen; Quaker Window Company, Highway 63 South, P.O. Box 128 Freeburg, MO. 65035 Ph. 800-347-0438.
- 3. Equal products with prior approval from the Architect/Owner.

# E. Insulated Panels

1. Acceptable Products: Equal to:

Omega Foam Ply Panel. 1" in thickness. PreFinished Aluminum Surface with color to match window application.

Laminators Inc. 3255 Penn Street Hatfield, PA 19440 Ph. 877-OMEGA-77

# PART 3 EXECUTION

# 3.1 SURFACE CONDITIONS

- A. Install the work of this Section in strict accordance with the manufacturer's recommendations as approved by the Architect, anchoring all units firmly into position square, plumb, straight and true.
- B. Dissimilar materials:
  - 1. Where aluminum surfaces come in contact with metals other than stainless steel, zinc or white bronze of small area, isolate the aluminum by one of the following methods:
    - a. Apply a good quality sealant material between the aluminum and the dissimilar metal.
    - b. Isolate the dissimilar metals with non-absorptive tape or gaskets.

# 3.2 CLEANING

### A. Labels:

- 1. Leave all labels in place, intact and legible, until reviewed and approved by the Architect.
- 2. Do not at any time remove required AAMA labels.

- В.
- Prior to completion of the Work, thoroughly clean all exposed surfaces of windows and screens.

  1. Use only the cleaning materials and techniques recommended by the manufacturer of the material being cleaned.
  - Do not scratch of otherwise damage the glass, screen or aluminum finish. 2.